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Courses of Study.

1902

COLLEGIATE DEPARTMENT

CLARK UNIVERSITY

WORCESTER, MASS.

COURSES OF STUDY, 1902-03.

WORCESTER, MASS.
PUBLISHED FOR THE COLLEGE.
September, 1902.

CALENDAR: 1902-1903.

1902.			
Oct.	1.	Wednesday, A. M.	First academic year begins.
Nov.	27.	Thursday,	Thanksgiving Day.
Dec.	20.	Saturday, A. M.	Christmas Recess.
1903.			
Jan.	3.	Saturday, P. M.	
Jan.	31.	Saturday,	Founder's Day.
Feb.	23.	Monday,	Washington's Birthday.
April	6.	Monday, A. M.	Spring Recess.
April	11.	Saturday, P. M.	
April	20.	Monday,	Patriot's Day.
May	30.	Saturday,	Memorial Day.
June	19.	Friday, P. M.	First academic year closes.

PRESIDENT OF THE COLLEGE.

CARROLL D. WRIGHT, PH. D., LL. D.

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FACULTY OF COLLEGIATE DEPARTMENT,

CLARK UNIVERSITY, WORCESTER, MASS.

CARROLL D. WRIGHT, PH. D., LL. D.,
President and Professor of Statistics and Social Economics.

RUFUS C. BENTLEY, A. M.
Professor of Latin and Greek, and Dean of the Faculty.

A. B., 1894, A. M., 1896, University of Nebraska; Assistant in Psychology, University of Nebraska, 1893-96; Principal of Schools, Shelton, Nebraska, 1896-97; Principal of High School, Martinez, California, 1897-98; Principal of High School and Supervising Principal of Schools, San Rafael, California, 1898-1900; Fellow in Education, Teachers College, Columbia University, 1900-01; Fellow in Pedagogy, Clark Univerity, 1901-02.

WILLIAM E. STORY, PH. D.,
Professor of Mathematics.

A. B., Harvard University, 1871; Ph. D., Leipzig, 1875: Parker Fellow (Harvard), 1874-75; Tutor of Mathematics, Harvard University, 1875-76; Associate, Assistant Professor, and Associate Professor of Mathematics, Johns Hopkins University, 1876-89; Member of the London Mathematical Society; Resident Fellow of the American Academy of Arts and Sciences; Professor of Mathematics, Clark University.

ARTHUR G. WEBSTER, PH. D.
Professor of Physics.

A. B., Harvard University, 1885; Instructor in Mathematics, Harvard University, 1885-1886; Parker Fellow, 1886-89; Student, Universities of Berlin, Paris, Stockholm, 1886-90; Ph. D., Berlin, 1890; Docent in Physics, Clark University, 1890-92; Assistant Professor, 1892-1900; Resident Fellow of the American Academy of Arts and Sciences. Professor of Physics, Clark University.

CLIFTON F. HODGE, PH. D.
Professor of Biology.

A. B., Ripon College, 1882; Fellow in Biology, Johns Hopkins University, 1888-89; Ph. D., Johns Hopkins University, 1889; Fellow in Psychology, and Assistant in Neurology, Clark University, 1889-91; Instructor in Biology, University of Wisconsin, 1891-92; Assistant Professor of Physiology and Neurology, Clark University.

JOSEPH G. COFFIN, B. S.

Instructor in Physics.

Student, Collège Chaptal, Paris, 1892-94; B. S., Massachusetts Institute of Technology, 1898; Assistant to Professor Cross, Massachusetts Institute of Technology, 1898-1900; Scholar in Physics, Clark University, 1900-01; Fellow in Physics and Assistant to Dr. Webster, Clark University, 1901-02; Fellow in Physics, Clark University, 1902-03.

CHARLES W. EASLEY, A. M.

Instructor in Chemistry.

A. B., Dickinson College, 1897; A. M., 1899; Instructor in Science, Troy Conference Academy, Poultney, Vt., 1897-99; Instructor in Mathematics and Science, Wil. Conf. Academy, Dover, Del., 1899-1901; Scholar in Physics, Clark University, 1901-02; Fellow in Physics, Clark University, 1902-03.

FREDERICK H. HODGE, A. M.

Instructor in Mathematics.

A. B., Boston University, 1894; A. M., 1899; Special Student, Mass. Normal School, Bridgewater, 1894-95; Professor of Mathematics, John B. Stetson University, 1895-96; Graduate Student in Mathematics, University of Chicago, 1896-97; Scholar in Mathematics, Clark University, 1897-98; Fellow, 1898-99; Professor of Mathematics and History, Bethel College, 1899-1901. Fellow in Mathematics, Clark University, 1901-02, and 1902-03.

SAMUEL P. CAPEN, PH. D.

Instructor in Modern Languages.

A. B., A. M., Tufts College, 1898; A. M., Harvard, 1900; Harrison Fellow in Germanic Languages at University of Pennsylvania, 1900-1901; Graduate Student, University of Pennsylvania, on leave of absence, 1901-02, Student at University of Leipzig, 1901-02; Ph. D., University of Pennsylvania, 1902.

FREDERICK A. BUSHÉE, PH. D.

Instructor in Economics and History.

Litt. B. (Dartmouth), 1894: A. M. (Harvard), 1898; Ph. D. (Harvard), 1902; Resident South End House, Boston, 1894-5; 1896-7; Hartford School of Sociology, 1895-6; Harvard University, 1897-1900; Collège Libre des Sciences Sociales, Collège de France, Paris, University of Berlin, 1900-01; Assistant in Economics, Harvard University, 1901-02.

ANDREW J. GEORGE, A. M.

Instructor in English.

A. B., 1876; A. M., 1879, Amherst; Principal of Ashland High School, 1876-1882; Master in Brookline High School, 1882-1887; Head of English Department, Newton High School, 1887.

COURSES OF STUDY.

The present outline of courses is tentative in many respects, and aims chiefly to put into the hands of students a brief manual which will serve to indicate the actual work to be done in the college during the current year, and, less definitely, the courses which may be expected in following years.

DEPARTMENTS.

The regular courses of instruction are comprised in eleven departments, as follows:

I. Mathematics.
II. Physics.
III. Chemistry.
IV. Biology.
V. History.
VI. Political Science and Civics.
VII. Economics and Sociology.
VIII. Psychology, Ethics, and Philosophy.
IX. English.
X. Modern Languages: French, German and Spanish.
XI. Latin and Greek: The Latin and Greek languages and literature.

Of these eleven departments work will be offered in 1902-03 in all but VI, VII, and VIII. No effort is made to state the courses in those departments which are not yet organized. It is sufficient to say that full and well articulated courses will be offered in these branches during the second and third years of the College, and in ample time to be taken in due order. For a general

statement of the aims of the several departments, reference should be made to the Preliminary Announcement published by the College in June, 1902.

Remarks on the Courses of Study.

Every student, when registering, is expected to announce his choice of groups (described below). An adviser will be appointed for each student, who, as a member of the faculty representing one of the student's chief studies, shall serve as his counsellor throughout his course. With the adviser's help the possibilities of the group chosen should be thoroughly canvassed at once, possible elections for the three years noted, and a choice made from them if it can be done.

The following explanation of terms will help in the interpretation of the courses :

A *Group* is the amount of work taken by one student.

A *Course* is a normal year's work in a single subject (five hours a week). It may be necessary to distribute this work among several years.

A *Major Subject* is a subject in which two courses are taken.

A *Major Course* is the second course in a *Major Subject.*

The first course in a *Major Subject* is a *Minor Course.*

A *Minor Subject* is a subject in which a *Minor Course* only is taken.

While leaving to the student the free choice of his main department of study and some of the subordinate departments, the faculty have thought wise to assure a certain connectedness, sequence, and liberality of training by defining certain combinations or *groups* of study whose successful completion will be marked by them with the degree of Bachelor of Arts. For convenience, a year's work or *course* in any subject is fixed at five class exer-

cises a week for one year. It may be necessasy, in special cases, to divide a course and give part of it in one year and part in another; but a course not expressly announced as divisible may not be divided by a student without the approval of his adviser and the faculty. A recitation, a lecture, or three hours of laboratory work counts as one class exercise, on the assumption that each recitation requires two hours for its preparation and each lecture two hours for its assimilation. Two *courses* in each of the departments

Mathematics,	History,	German,
Physics,	Political and Social Science,	Latin,
Chemistry,	English,	Greek,
Biology,	French,	

are offered to undergraduates, of which the first is designated as a *Minor Course* or *Course A* and the second as a *Major Course* or *Course B*. Usually, a student may not take a course B until he has completed the course A in the same department. A course A taken without the corresponding course B (or B without A, if the instructor approves) constitutes a *minor subject* for the student so taking it, and courses A and B in one department together constitute a *major subject.*

Each group is normally composed of two major and six minor subjects, and the student will usually be guided in his choice of a group by the subjects he prefers to pursue as majors. The major subjects characterize the several groups and give them decided tendencies. The groups fall naturally into three divisions according to their major subjects, which are as follows:

First Division. *Scientific.*

Group I. Mathematics and Physics.

Group II. Physics and Chemistry.

Group III. Chemistry and Biology.

SECOND DIVISION.

Group IV. History and Political and Social Science.

THIRD DIVISION. *Linguistic.*

Group V. English, French, German and Latin, any two.

Group VI. Latin and Greek.

Each group includes (either as required minor subjects or as parts of major subjects) English A, French A, German A, and either Physics A or Chemistry A or Biology A; the choice between Physics, Chemistry and Biology (as a required minor) in Groups IV, V and VI is subject to the approval of the student's adviser and to that of the faculty. Mathematics A is a required minor in Group II, Physics A in Group III, and History A in Groups IV, V and VI. The rest of the six minors of any group are *electives* to be selected by the student, after consultation with his adviser, from the courses A not otherwise taken by him and from such courses B as, in the opinion of their instructors, he may be qualified to pursue; but this selection must be so made as to avoid all conflict of hours. The student may thus, by choosing his electives from courses B, increase the number of his major subjects from two to as many as five (*e. g.*, by electing English B, French B, and German B in Group I).

A detailed Schedule of Hours follows, in which such modifications may be made, with the approval of the student's adviser, as shall not lead to any conflict of hours in the current and subsequent years. In this way it may be possible for a student to take in his Junior year (in addition to the three courses prescribed for that year) one of the four courses assigned to the Senior year (to avoid a conflict in this year), or to divide a course between the Junior and Senior years and thus somewhat equalize the work of those years. Hours for work in the

laboratories will be assigned by the instructors in the corresponding departments.

In Group V, any *two* of the languages,

English, French, German, and Latin,

may be taken as major subjects, one in the Freshman and Junior years and the other in the Junior and Senior years, and the required minor in either of the first three of these languages so taken as a major is then to be replaced by an elective.

In 1902-03 but two hours a week of English A will be offered and each student will be expected to fill out his year's work by taking one of his electives or such other subject of his group as may be taken without conflict of hours, leaving the rest of English A (three hours a week) for a later year.

SCHEDULE OF HOURS.

	Freshman Year.	Junior Year.	Senior Year.
Group I.	Math'maticsA, 8A.M. English A, 4 P. M. French A, 11 A. M.	MathematicsB, 10A.M. Physics A, 12 M. German A, 9 A. M.	Physics B, 8 A. M. 3 Electives.
Group II.	Physics A, 12 M. English A, 4 P. M. Math'maticsA, 8A.M.	Physics B, 8 A. M. Chemistry A, 10 A. M. French A, 11 A. M.	Chemistry B, 8 A. M. German A, 9 A. M. 2 Electives.
Group III.	Chemistry A, 10 A.M. Physics A, 12 M. English A, 4 P. M.	Chemistry B, 8 A. M. Biology A, 2 P. M. French A, 11 A. M.	Biology B, 10 A. M. German A, 9 A. M. 2 Electives.
Group IV.	History A, 8 A. M. English A. 4 P. M. French A, 11 A. M.	History B, 12 M. Pol.& Soc.Sci.A, 11A.M. German A, 9 A. M	Pol.& Soc.Sci.B, 9 A.M. Physics A, 12 M. or Chem'tryA, 10A.M. or Biology A, 2 P. M. 2 Electives.
Group V.	1 Language A. English A, 4 P. M. Physics A, 12 M. orChem'yA, 10A.M. orBiology A, 2 P.M.	1 Language B. 1 Language A. French A, 11 A. M.	1 Language B. German A, 9 A. M. History A, 8 A. M. 1 Elective.
Group VI.	Latin A, 9 A. M. Greek A, 11 A. M. English A, 4 P. M.	Latin B, 12 M. Greek B, 10 A. M. French A, 11 A. M.	German A, 9 A. M. History A, 8 A. M. Physics A, 12 M. or Chem'tryA, 10A.M. or Biology A, 2 P. M. 1 Elective.

For convenience, the hours assigned to the several courses and the courses to be given at the several hours of the day, follow:

Department.	Course A.	Course B.
Mathematics	8 A. M.	10 A. M.
Physics	12 M.	8 A. M.
Chemistry	10 A. M.	8 A. M.
Biology	2 P. M.	10 A. M.
History	8 A. M.	12 M.
Political and Social Science	11 A. M.	9 A. M.
English	4 P. M.	12 M.
French	11 A. M.	5 P. M.
German	9 A. M.	3 P. M.
Latin	9 A. M.	12 M.
Greek	11 A. M.	10 A. M.

8 A. M.	Math. A, Phys. B, Chem. B, Hist. A.
9 A. M.	Soc. Sci. B, Germ. A, Lat. A.
10 A. M.	Math. B, Chem. A, Biol. B, Greek B.
11 A. M.	Soc. Sci. A, French A, Greek A.
12 M.	Phys. A, Hist. B, Engl. B, Lat. B,
2 P. M.	Biol. A.
3 P. M.	Germ. B.
4 P. M.	Engl. A.
5 P. M.	French B.

DEPARTMENT OF MATHEMATICS.

PROFESSOR STORY AND MR. HODGE.

The aim of the course in mathematics is two-fold: first, to give the student a thorough training in such fundamental branches as shall furnish a sufficient basis for advanced mathematical studies in the University; and, second, to make him acquainted with such mathematical methods as are most likely to be useful in the study of other subjects and particularly in practical affairs.

With these ends in view, the topics will be taken up in an order different from that usually followed in the current text-books. The general scope of the work is indicated by the subjects :

Higher Algebra with Determinants;

Analytic Geometry, with a systematic investigation of the properties of the conic sections and quadric surfaces;

Differential and integral calculus, including the elements of differential equations.

The work is based upon the assumption of a good knowledge of algebra through quadratic equations, plane and solid geometry, and plane trigonometry; but those students whose acquaintance with solid geometry and trigonometry is insufficient for the work will be given an early opportunity to get the necessary knowledge of these subjects by extra hours.

Subject to such slight modifications as may be found advisable later, two courses in mathematics (A and B) will be given as follows :

COURSE A. (minor), five hours a week through the year.

1. Elements of *plane analytic geometry*, including fundamental formulæ in rectangular co-ordinates, with a fairly systematic treatment of the straight line, applications to the circle and some other simple curves, and curve-plotting.

2. *Algebra* supplementary to the high-school course, including the binomial theorem, arithmetical and geometrical progressions, the general use of surds, imaginary values, the theory of limits, the notions "variable" and "function," simple differentiation and integration, elements of the theory of equations, and determinants.

3. *Application of trigonometry and the calculus to plane curves*, including the completion of the analytic geometry

of the straight line, polar co-ordinates, tangents of curves and polars.

COURSE B. (major).

4. *Plane and solid analytic geometry*, including treatment of the conic sections and quadric surfaces by rectangular co-ordinates; two hours a week through the year.

5. *Differential and integral calculus* treated systematically; three hours a week through the year.

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6. During the first year an extra hour will be devoted to plane trigonometry and solid geometry, for the benefit of those who have not a sufficient knowledge of these branches. The former subject will be so treated that students will be prepared for such applications as are made in the regular course of this year at the proper time.

Additional (optional) work will be arranged for any student who may desire it in his Senior year.

DEPARTMENT OF PHYSICS.

PROFESSOR WEBSTER AND MR. COFFIN.

The work of this department is under the direction of Professor Webster, who will deliver occasional lectures, while the main part of the instruction will be given, at least during the present year, by Mr. Coffin.

The work of the department of physics will be kept in close relation with those of mathematics and chemistry, so that the work of one department will often find application in the others; in particular many of the conceptions of mathematics will be much elucidated by their applications in physics. It is hoped that much time will be saved to the student in this manner, so that by the application of modern methods of instruction, and the elimination of overlapping and unnecessary work, results

may be secured in three years which have been supposed to require longer, and thus the modern demand for an earlier entrance to life may be met.

The following courses are offered, of which 1 and 2 will be given in 1902-03.

COURSE A.

1. General Physics. Lectures and Recitations. This course is intended to give a general knowledge of the various departments of physics, viz.: general mechanics of solids, liquids and gases, sound, heat, light, electricity and magnetism. In thus treating such a wide range of subject matter, a foundation will be laid for a more detailed treatment of the various subdivisions of physics in later years.

This course is designed to be of interest not only to persons intending to make use of physics in connection with later professional work, but also to such as are interested in acquiring a knowledge of the facts of physics as a part of a liberal education. While the difficulty of the course will be superior to that of a high-school course, the mode of presentation will be such that persons beginning the study of physics will be able to follow the course with profit. Three hours a week, one year.

2. Laboratory course in Physical Measurements. One lecture a week on the Theory of the Precision of Measurements will be required of all students taking work in the laboratory.

The exercises will be selected from the various subjects mentioned above, their difficulty being carefully adapted to the previous preparation of the student, so that a student who shows ability may proceed rapidly to work which would ordinarily be done in the later years.

Habits of neatness and precision will be insisted upon, and the student encouraged to obtain from his instru-

ments the maximum efficiency of which they are capable.

Economy of physical measurements, which consists in putting the greatest effort in an experiment or in a calculation, where it is needed and not uselessly wasting a great amount of time and energy where a less amount of both is sufficient, will be considered of paramount importance, and the underlying principles will be taught in the lectures, and be required in practice.

The use of logarithmic tables, Crelle's multiplication tables, calculating machines and the slide rule will be made familiar to the student by actual practice.

Such principles as these can but be of the greatest use and benefit to one, whatever course he may pursue in the future, and their educational value cannot be too highly insisted upon.

The requirements for admission to course 2 will be a preparation in Elementary Physics equivalent in the estimation of the instructor to course 1, or the simultaneous following of course 1. Two hours a week, one year.

COURSE B.

3. Heat. Lectures and Recitations. Lectures which will aim to give a more advanced view of the principles of heat measurements and their application to science and industry, including high temperature measurements. Two hours a week, one semester.

4. Laboratory course in Heat and Light Measurements. One hour a week, one semester.

5. Light and Sound. Lectures and Recitations. An advanced course upon these subjects, stress being laid upon the applications, especially of light, to the sciences and industries. Photometry, or the measurement of illuminative intensities will be enlarged upon. Two hours a week, one semester.

6. Laboratory course in Optical Measurements. One hour a week, one semester.

7. Theoretical Electricity. Lectures and Recitations. The elementary mathematical principles of electricity and magnetism will be given; these are necessary to the clear understanding of all the applications of electricity to be found in life. The first principles of electro-chemistry will be explained, this being a subject which is becoming of greater and greater importance both theoretically and practically. Two hours a week, one semester.

8. Laboratory course in Electrical Measurements. One hour a week, one semester.

9. Elements of Industrial Electricity. Lectures. A descriptive course on the principal industrial applications of electricity, such as electric lighting, telephony, telegraphy, power transmission, transformers, wireless telegraphy and electro-chemistry. One hour a week, one semester.

Courses in physics will be chosen to satisfy the needs of students. Courses in the advanced theory of heat, light, electricity and thermo-dynamics may be expected.

DEPARTMENT OF CHEMISTRY.

MR. EASLEY.

The course in Chemistry will consist of lectures together with laboratory work. Frequent quizzes or recitations will enable the instructor to make sure that the work is being digested and to determine the approximate status of each student. Individual instruction will be given as far as practicable. A large proportion of the time will be devoted to laboratory work since here the student will confirm for himself the truths previously learned from text-books or lectures and, when rightly directed, will be able to deduce logical results from his

observations. Such exercises will be given as will suit particular cases, and advanced work will be encouraged wherever proper fitness is manifested.

During the first year, three hours per week will be given to lectures and quizzes on Inorganic Chemistry. This course will include a study of the most important elements and their compounds, the writing of chemical equations, the laws and theories of chemical action and the solution of the simpler problems. The development of chemical theory within the last few years is recognized and this phase of the subject will receive the attention which its importance demands.

An effort will be made to induce students to extend their work beyond the limits of the lectures by continually referring them to authorities where separate subjects will be treated more fully than is possible in the class room. To this end, the library will contain the best works and considerable freedom will be allowed in the use of the books. Each student will also be recommended to procure a good text-book for constant guidance.

The following is a tentative outline of courses to be offered by the department of chemistry.

COURSE A.

1. General course in Inorganic Chemistry more fully outlined above. Three hours a week through the year.

2. Laboratory course. Two hours a week through the year.

COURSE B.

3. Qualitative Analysis. Chiefly laboratory work. Two hours a week, one semester.

4. Inorganic Preparations. Laboratory course. Two hours a week, one semester.

5. Organic Chemistry. Lectures. Two hours a week through the year.

6. Quantitative Analysis. Laboratory work. One hour a week through the year.

An optional course in Physical Chemistry will probably be offered in due time.

DEPARTMENT OF BIOLOGY.

PROFESSOR HODGE.

The purpose of the first year's course is to give, as far as possible in a year, a practical knowledge of the phenomena, forces and laws of living nature which every intelligent member of a community ought to have. It will differ from biological courses as commonly offered in the fact that the emphasis usually placed upon dead form and structure will be shifted toward the side of function and vital activity. Types for study will be selected so far as possible from common forms which may be observed alive and at work under natural conditions. A good share of the study and laboratory work will be done out of doors.

While the chief aim is to give the fundamental science of living things as a course complete in itself, a secondary purpose is to prepare the student for the more special courses—pre-medical physiology, histology and comparative anatomy, botany and zoölogy, bacteriology, entomology and neurology, of succeeding years. Subjects 1 and 6 should be closely associated in the student's mind with the sociological group of studies.

The following Biological Courses are projected, the time required for each course being either two hours lecture and nine hours laboratory work or three hours lecture and six hours laboratory work a week.

COURSE A.

1. General Biology; an introduction to the biological sciences. Required of all who take courses 2, 3, 4 and 5.

COURSE B. (One of the subjects 2, 3, 4, 5 or 6, according to advice.)

2. Zoölogy; in connection with comparative anatomy and embryology (pre-medical).

3. Botany; systematic structural and ecological: second year.

4. Animal Physiology and Histology. Pre-medical: third year.

5. Plant Physiology and Pathology: third year.

6. Hygiene. Including private and public hygiene and Sanitation, and Bacteriology.

DEPARTMENT OF HISTORY.

DR. BUSHÉE.

COURSE A.

1. *European History.* This is intended to serve as an introductory course in History and also as a general course for those who are intending to do advanced work.

The period covered will be from the fall of Rome to the middle of the 18th century. The movement of population will be studied and attention will be given to the social condition of the people, as well as to political developments.

The exercises will be conducted by means of lectures and discussions. Individual conferences will be arranged, to assist the student in his reading and in the investigation of special topics. Three hours per week, one year.

2. *History of England.* This course will extend from the Norman Conquest to the middle of the 18th century. The effects of the Norman Conquest will be studied, but

the greater part of the time will be devoted to the Tudor and Stuart periods. Two hours per week, one year.

COURSE B.

3. *Ancient History.* This course will deal for the most part with the political and social characteristics of Ancient Greece and Rome with special reference to the permanent contributions which these states have made to modern civilization. One hour per week, one year.

4. *Europe During the 18th and 19th Centuries.* The first part of this course will deal with the industrial development of England and with its Constitutional growth, since the beginning of the Parliamentary period. The second part of the course will deal with Continental Europe, chiefly with France, Germany and Italy. Two hours per week, one year.

5. *United States History.* The first part of the course will be confined to the Colonial period. The second part will consist of the political and constitutional study of the Union with reference also to the more important points in its economic development. Two hours per week, one year.

Courses in Economics will be announced later. Students taking history as a minor only, will be advised to make up, with subject 1, a complement of the minor requirement from subjects in economics.

DEPARTMENT OF ENGLISH LITERATURE.

MR. GEORGE.

The following courses are offered in English.

COURSE A.

1. Literary History of England in relation to the main currents of English life, political, religious, and social. Two hours a week, one semester.

2. Types of the English Essay from the time of Addison. This course involves the study of Practical Rhetoric: vocabulary, sentence, paragraph, structure and style. Two hours a week, one semester.

3. English Poetry in the English Renascence to the death of Scott. Two hours a week, one semester.

4. English Poetry in the Pseudo-Classical Period, with emphasis on Dryden and Pope. Two hours a week, one semester.

5. Development of the English Drama, with emphasis on Shakespeare. Two hours a week, one year.

6. English Poetry in the Period of the Italian Renaissance, with emphasis on Shakespeare's Sonnets, Spenser and Milton. Two hours a week, one semester.

7. Development of the English Novel. Two hours a week, one year.

COURSE B.

8. English Poetry in the Formative Period, with emphasis on Chaucer. Two hours a week, one semester.

9. English Letter Writers. Two hours a week, one semester.

10. English Poetry in the English Renascence, from the death of Scott to the death of Tennyson. Two hours a week, one semester.

11. The Oration, with special study of Exposition, Argumentation and the structure of Briefs. Two hours a week, one semester.

12. English and Scottish Ballad Literature. Two hours a week, one semester.

13. History of Literary Criticism from the time of Aristotle, with special study of English criticism from 1700 to 1900. Two hours a week, one year.

14. Literature in English: Lyric, Epic and Dramatic

Literature (Hebrew, Greek and Roman), in translation. Two hours a week, one year.

Students should allow at least two hours for reading, research, and writing, in connection with each exercise.

The class-room work will consist mainly of conferences, discussions, and reading of Themes, with occasional supplementary lectures by the instructor; the purpose being to develop an interest in literature and life, independence of thought, ease and force of oral and written expression.

In 1902-3 subjects 2 and 3 will be given, 2 in first semester and 3 in second, with 1 in a two-hour a week exercise; emphasis being given to 2 and 3.

Outlines of these courses may be had of the instructor.

DEPARTMENT OF MODERN LANGUAGES.

DR. CAPEN.

Three courses, 1, 2 and 3, are offered in each language. Course 1, in both German and French must be taken by all students in all groups, except those who have already completed its equivalent before entering college.

Courses 1 and 2 constitute a major subject. For those students who have completed work equivalent to Course 1 before entering and who elect Group V, Courses 2 and 3 constitute a major subject.

GERMAN.

1. First semester. Grammar; easy reading and composition. Bierwirth's Elements of German; Huss's German Reader; short works of modern prose and verse.

Second semester. Modern prose and poetry and introduction to the classics. Seidl, Der Tausendmarkschein; Heine, Die Harzreise; Scheffel, Der Trompeter von Säkkingen; Schiller, Wilhelm Tell; Lessing, Minna von

Barnhelm; Goethe, Hermann und Dorothea. Daily, at 9 A. M.

2. First semester. Goethe and Schiller. Schiller, Die Jungfrau von Orleans, Maria Stuart, Wallenstein, Ballads; Goethe, Egmont, Dichtung und Wahrheit, Lyrics; Selections from the correspondence between Schiller and Goethe.

Second semester. The Classic Authors. Schiller, Die Braut von Messina; Lessing, Laocoon, Nathan der Weise; Emilia Galotti; Goethe, Iphigenia, Tasso; collateral readings in criticism and literary history. Daily, at 3 P.M.

3. First semester. History of German Literature from the earliest times to the death of Goethe; Faust, Parts I and II; lectures, themes and collateral readings.

Second semester. Middle High German. Bachmann's Mittelhochdeutsches Lesebuch; Hartmann, Der Arme Heinrich; Das Nibelungenlied; translations into modern German. Hours to be arranged.

FRENCH.

1. First semester. Grammar; easy reading and composition. Grandgent's Essentials of French Grammar; Super's French Reader; Lewis's Vocabulary; several short works of modern fiction.

Second semester. Macmillan's Progressive French Course II.; Dumas père, les Trois Mousquetaires; Michelet, Extraits de l'histoire de France; Thiers, Expédition de Bonaparte en Égypte; Balzac, le Curé de Tours; Pailleron, le Monde où l'on s'ennuie; Racine, Esther; Corneille, Horace. Daily, at 11 A. M.

2. First semester. Seventeenth Century Literature. Corneille, Racine, Molière, Boileau, Mme. de Sévigné, Mlle. de Scudéry. Reading; translation; lectures and themes.

Second semester. Eighteenth Century Literature.

Rapid reading of representative works; discussions, themes and collateral reading. Daily, at 5 P. M.

3. First semester. Nineteenth Century Literature. The Romantic, Realistic and Naturalistic Movements. Lectures, themes and collateral reading.

Second semester. History of French Literature, Lectures, extensive collateral reading and themes. Hours to be arranged.

DEPARTMENT OF LATIN AND GREEK.

PROFESSOR BENTLEY.

The purpose of courses in this department is to facilitate a direct insight into the literature of which the languages taught are the vehicle of expression. Philological interest will be secondary and contributary, and grammatical study will be reduced to the minimum.

LATIN.

COURSE A.

1. Livy, Tacitus and other Historians. Four hours a week, first semester.

2. Horace, Vergil, Ovid and other Poets (selections). Four hours, second semester.

3. History of Roman Literature (with copious readings). One hour a week through the year.

COURSE B.

4. The Roman Poets (epic, elegiac, and lyric), Selections. Two hours a week, one semester.

5. The Roman Comedians and Satirists; a study of archaic Latin. Selections from Plautus, Terence, Juvenal and others. Three hours a week, one semester.

6. Roman Orators and Philosophers. Four hours a week, one semester.

7. Roman Literature. Advanced course giving the

history of Roman Literature in connection with the social and political life of the people. Readings, recitations and lectures, with special reports by students. One hour a week, one semester.

ELECTIVE.

8. Beginning Latin. May be taken, under advice, as a minor elective in any group.

GREEK.

COURSE A.

1. Greek Historians. Selections from Herodotus and Thucydides, and a study of other writers of history. Class and individual work. Four hours a week, one semester.

2. Greek Orators, and selections from Plato's Dialogues. Four hours a week, one semester.

3. History of Greek Literature. One hour a week through the year.

COURSE B.

4. Greek Dramatic Poetry and Satire. Selections from the chief works of the Greek theatre. Four hours a week, one semester.

5. Greek Epic and Lyric Poetry. Two hours a week one semester,

6. Greek Philosophers, and prose selections. Two hours a week, one semester.

7. Ancient Greek Life. Illustrated lectures, readings, and reports on the dress, domestic habits, houses, mode of life, marriage and funeral customs, markets and trade, relations of citizens to one another and the state, military and civil duties, etc., etc. One hour a week through the year.

ELECTIVE (in other groups than VI).

8. Beginning Greek.

FURTHER INFORMATION FOR STUDENTS.

Information about board and rooms will be found in Room No. 53. Students usualy find board and rooms within a short distance of the University. The days preceding Wednesday, Oct. 1st, should be used in arranging these matters.

On Wednesday at 9 A. M. college students will assemble in Room 19, and classes will meet for organization on Thursday at the times and places to be noted in the schedules of this pamphlet.

Students will be expected to come prepared to focus attention upon some one of the six groups. After this partial registration, members of the faculty will at once be appointed as advisers to individual students. By conference with his adviser each student will be able to lay out his course and complete his registration.

Following are the room numbers which will locate the various functions of the College: Main building, first floor; President's Office, 48; Dean's Office, 54; Faculty Room, 17; Cloak Room, 18; Assembly Room, 19; Physics, 30; History and English, 51; Languages, 52; Librarian's Office, 37. Second floor: Biology, 74; Mathematics, 57. Chemistry building, Chemistry, first floor, laboratory and lecture room.

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